



# RadiForce® R12

19" CLASS COLOR LCD MONITOR

With versatile image control and landscape/portrait mode support, the R12 is ideal for viewing CT and MRI images or use as a HIS terminal.

## CALIBRATION SUPPORT AND QC MANAGEMENT

The R12 offers long-term image quality and consistency through EIZO's optional RadiCS RX1 calibration kit. RadiCS RX1 features include acceptance testing, calibration to the DICOM Part 14 standard, detailed calibration history reports, test pattern checks, and automatic correction of brightness and gamma changes. It also offers manufacturer-independent asset management of PC, graphics boards, and monitors.



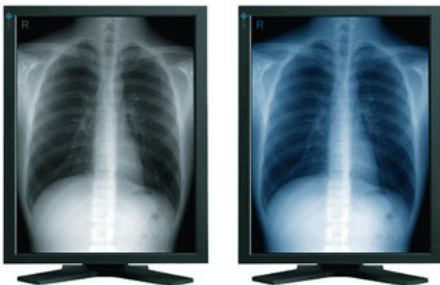
Image display consistent after calibration

## TONECURVE TUNING UTILITY

This EIZO-developed software utilizes the R12's dual 10-bit Look-Up Tables for adjustment of tones to the desired values. Once values have been set, they can be saved to a control PC and shared with other RadiForce color 1MP and 2MP monitors.

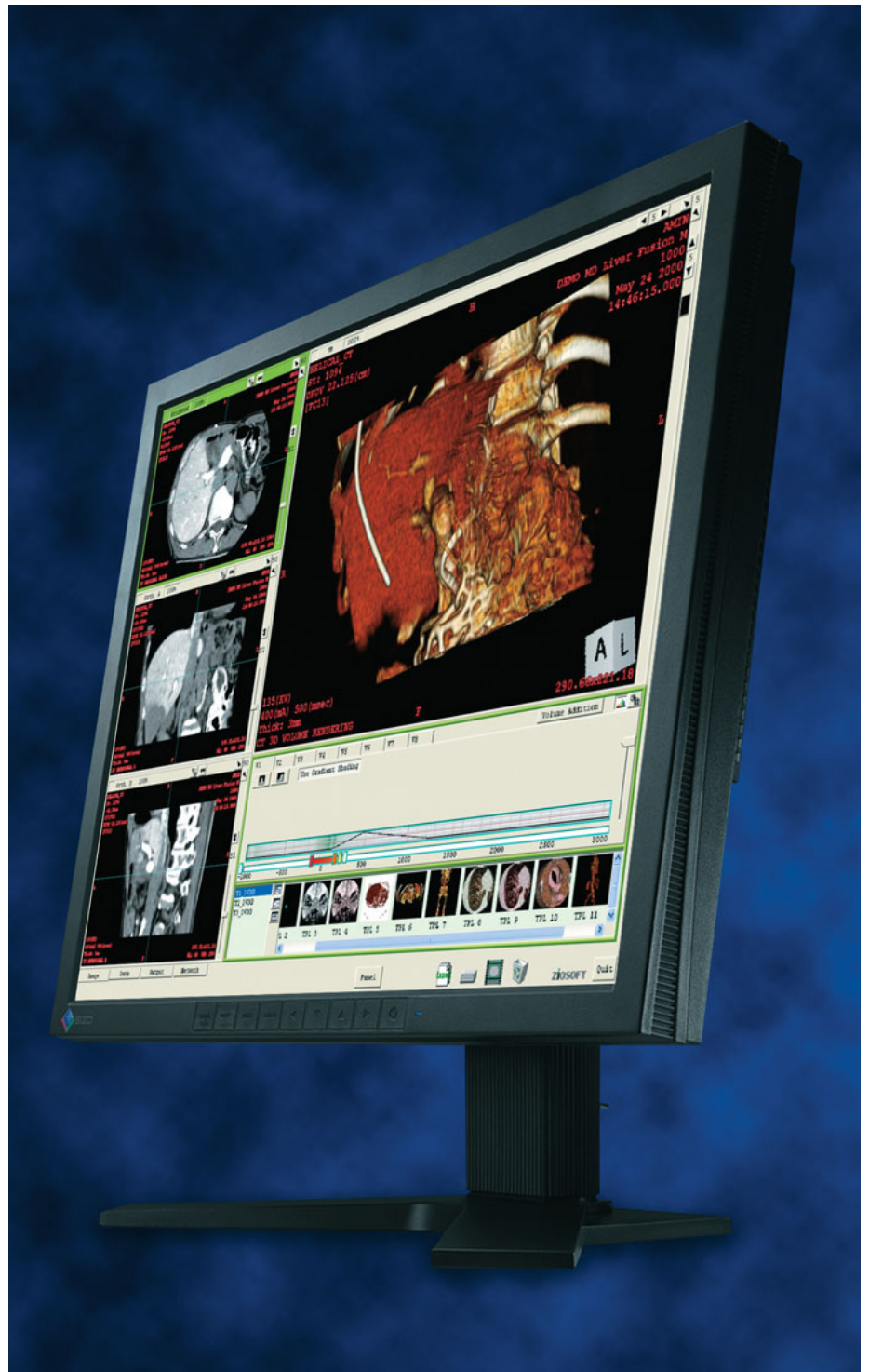
## DICOM MODES

EIZO's front button operated Fine Contrast function consists of six user-selectable modes, each with different settings for contrast, brightness, and gamma. It includes two DICOM modes – DICOM-CL and DICOM-BL for clear base and blue base film – as well as Custom, sRGB, Calibration, and Text modes.



Clear Base (DICOM-CL)

Blue Base (DICOM-BL)



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### AUTO FINE CONTRAST

This feature assigns a mode to a particular application so the mode automatically changes when the application runs. For example, use Custom mode at a high brightness setting for viewing a CT image or Text mode when going over patient charts.

\*Auto Fine Contrast is included with the bundled ScreenManager Pro for LCD application, which runs on Windows 98SE/Me/2000/XP only.



### BRIGHTNESS STABILIZATION

#### ● Drift Correction Circuit

Quickly stabilizes the brightness level after startup or coming out of power save mode.

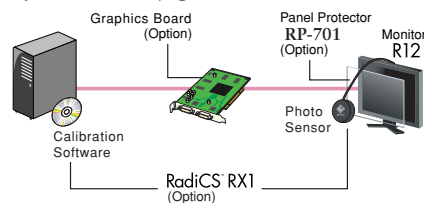
#### ● Auto Brightness Control

The monitor detects and automatically compensates for brightness changes caused by surrounding temperatures and the passage of time for stable brightness and longer service life.

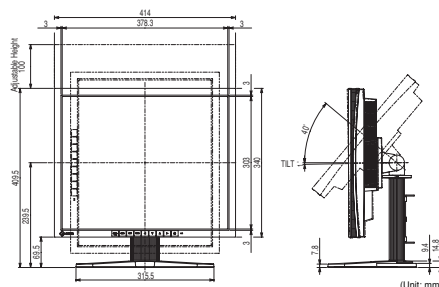
### SLIM BEZEL DESIGN

Narrow bezels along all four sides save space and require less eye movement in a multi-panel environment. Other features include a 100 mm height adjustable stand, 41° tilt, 70° swivel, and 90° portrait orientation.

### System Configuration



### Dimensions



### Specifications

Panel Size and Type	48 cm (19") TFT color LCD panel
Cabinet Colors	Black, Gray
Pixel Pitch	0.294 x 0.294 mm
Display Colors	16.77 million from a palette of 1.06 billion
Viewing Angles (H, V)	170°, 170°
Scanning Frequency (H, V)	Analog: 30 – 82 kHz, 49 – 86 Hz Digital: 30 – 65 kHz, 59 – 61 Hz (VGA Text: 69 – 71 Hz)
Native Resolution	1280 x 1024
Brightness	250 cd/m <sup>2</sup>
Contrast Ratio	450:1
Dot Clock	Analog: 135 MHz, Digital: 108 MHz
Response Time	50 ms (typical)
Input Signals	RGB Analog, DVI Standard 1.0
Sync Formats	Separate, Composite, Sync-on-Green
Input Terminals	DVI-I 29 pin x 2 (switchable)
USB Ports / Standard	1 upstream, 2 downstream / Rev.2.0
Active Display Size (H x V)	376 x 301 mm
Viewable Image Size	481 mm (diagonal)
Power Management	VESA DMPM, DVI DMPM
Power Consumption	55 watts
Power Save Mode	Less than 8 watts
Height Adjustment Range	100 mm
Dimensions (W x H x D)	With Stand: 414 x 409.5 – 509.5 x 202.7 mm Without Stand: 414 x 340 x 64 mm
Net Weight	With Stand: 8.1 kg, Without Stand: 5.8 kg
Tilt / Swivel	40° Up, -1° Down / 35° Right, 35° Left
Certifications & Standards	TÜV/GM (EN60601-1), CE Medical Device Directive, CB (IEC60601-1), cTUVus (UL2601-1, CSA C22.2 No. 601-0), FCC-B, Canadian ICE-003-B, VCCI-B, EIZO Eco Products 2002
Supplied Accessories	AC power cord, signal cables (DVI-D – DVI-D, DVI-I – D-Sub), USB cable, user's manual, EIZO Utility Disk (ScreenManager Pro for LCD, ICC profile), ToneCurve Tuning Utility, warranty registration card

### Accessories

#### GRAPHICS BOARDS

#### MED2mp-PPP MED2mp-PCI MED2mp-AGP

##### Graphics Board Specifications

Bus Interface	32 bit (33 MHz) / 64 bit (66 MHz)
Output Terminals	DVI-I x 2
Display Resolutions (portrait mode) <sup>1</sup>	up to 1200 x 1600 (single head) up to 2400 x 1600 (dual head)
Maximum Power Consumption	40 watts
<b>System Requirements / (Operating Environment)</b>	
Compatible Operating Systems	Microsoft Windows 2000/XP
Host Processor	600 MHz or greater
Frequency	
Main Memory	128 MB or greater

#### VREngine/SMD2-PCI VREngine/SMD2-AGP VREngine/MD2W

##### Graphics Board Specifications

Bus Interface	SMD2-PCI PCI 32 bit / (33 MHz / 66 MHz) SMD2-AGP AGP4x MD2W PCI 32 bit (33 MHz)
Output Terminals	DVI-D x 2
Display Resolutions (portrait mode) <sup>1</sup>	SMD2-PCI up to 1200 x 1600 (single head) SMD2-AGP up to 2400 x 1600 (dual head) MD2W 1200 x 1600 (single head) 2400 x 1600 (dual head)
Maximum Power Consumption	SMD2-PCI 23 watts SMD2-AGP 15 watts
<b>System Requirements / (Operating Environment)</b>	
Compatible Operating Systems	Microsoft Windows 2000/XP
Host Processor	500 MHz or greater
Frequency	
Main Memory	256 MB or greater

<sup>1</sup> Landscape mode also supported.

#### PANEL PROTECTOR

##### RP-701

Protects panel from dust and scratches.

#### DUAL HEIGHT ADJUSTABLE STAND

##### LS-HM1-D

Holds two monitors, offers a height adjustment range of 75 mm in 6 stages, and supports portrait and landscape orientation.

#### CALIBRATION KIT

##### RadiCS® RX1

Consists of photo sensor and calibration software for various QC management tasks.

Specifications are subject to change without notice.

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